

Examiner's Amendment

1. An examiner's amendment to the record is attached. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. David C. Oren (Reg. 38,694) On August 14, 2008

3. In the claims:

- Please amend claims 1, 8 and 15 as attached.

4. In the specification:

- Please replace the phrase "packets it its buffer" in page 12, line 4 to "packets in its buffer".

1. (Currently Amended) A mobile Internet Protocol (IP) system, comprising:

a mobile node initially linked to a first foreign network;

a home agent receiving a set of data packets, which are supposed to be transmitted to said mobile node, said home agent being included in a home network of said mobile node;

a first foreign agent receiving said packets from said home agent and storing said packets in a first buffer of said first foreign agent, wherein said first foreign agent sends said stored packets to said mobile node if said mobile node continues to be linked to said first foreign network; and

a second foreign agent receiving said packets stored in said first buffer of said first foreign agent from said first foreign agent, and the second foreign agent storing said received packets in a second buffer of said second foreign agent if said mobile node is moved to a second foreign network from said first foreign network, the packets stored in the second buffer that are received from the first buffer include packets stored in the first buffer while the mobile node is linked to the first foreign network, said second foreign agent being included in said second foreign network, wherein the first foreign agent keeps storing the data packets being sent from the home agent until the first foreign agent receives a notification message from the mobile node, and the notification message received at the first foreign agent informs the first foreign agent that the mobile node has moved to another foreign agent, and

wherein the packets stored in the first buffer of the first foreign agent are directly sent by the first foreign agent to the second foreign agent indicated in the notification message.

8. (Currently Amended) A method of transmitting data in a mobile Internet Protocol (IP) network, the method comprising:

transmitting a set of data packets from a host to a home agent of a mobile node, said mobile node being currently linked to a first foreign network having a first foreign agent;

sending said packets received by said home agent to said first foreign agent and the foreign agent storing the packets in a first buffer of the first foreign agent;

sending the stored packets by the first foreign agent to the mobile node if the mobile node continues to be linked to the first foreign network;

moving said mobile node from the first foreign network to a second foreign network having a second foreign agent;

sending said packets stored in said first buffer by the first foreign agent to said second foreign agent and the second foreign agent storing the received packets in a second buffer if said mobile node is moved to the second foreign network from the first foreign network, wherein the packets stored in the second buffer that are received from the first buffer include packets stored in the first buffer while the mobile node is provided in the first foreign network; and

transmitting said packets stored in said second buffer of the second foreign agent to said mobile node,

wherein the first foreign agent keeps storing the data packets being sent from the home agent until the first foreign agent receives a notification message from the mobile node, and the notification message received at the first foreign agent informs the first foreign agent that the mobile node has moved to another foreign agent, and

wherein the stored packets in the first buffer of the first foreign agent are directly sent by the first foreign agent to the second buffer of the second foreign agent indicated in the notification message.

15. (Currently Amended) A data routing method at a first foreign agent of a first foreign network in a mobile Internet Protocol (IP) network, the method comprising:

receiving a set of data packets at a home agent, wherein the data packets are transmitted from a host to the home agent;

determining a mobile node to which said packets are supposed to be transmitted;

storing packets in a first buffer of the first foreign agent until a notification message is received at the first foreign agent from the mobile node, wherein the notification message received at the first foreign agent informs the first foreign agent that the mobile node has moved to another foreign agent;

sending the stored packets from the first buffer to the mobile node if the mobile node is still linked to the first foreign network;

if the mobile node is not linked to the first foreign agent,
determining if said mobile node moves to a second foreign network having a
second foreign agent; and

sending the stored packets from the first buffer to the second
foreign agent when the notification message is received at the first foreign agent
from the mobile node,

wherein the second foreign agent receives the packets from the
first buffer of the first foreign agent and stores the packets in a second buffer of
the second foreign agent after the mobile node has moved from the first foreign
network to the second foreign network, and the second foreign agent transmits
the stored packets in the second buffer to the mobile node,

wherein the packets stored in the second buffer that are received
from the first buffer of the first foreign agent include packets stored in the first
buffer while the mobile node is in the first second foreign network and prior
to the first foreign agent receiving the notification message from the mobile
node.

Conclusion

Any inquiry concerning this communication or earlier communications
from the examiner should be directed to YASIN M. BARQADLE whose

telephone number is (571)272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yasin M Barqadle/
Primary Examiner, Art Unit 2153